Conference on Small Area Estimation

Conference Center, U. S. Bureau of the Census, Suitland, Maryland

Revised Program

Presenters of talks are listed in boldface; all sessions will be held in the
Census Bureau auditorium.

Thursday, March 26

8:30
Welcoming Remarks
Cynthia Clark, Associate Director for Methodology and Standards, U.S. Bureau of the Census

8:45 - 10:30
Small Area Estimation of Population
Small Domain Census Undercoverage Estimation Using the Reverse Record Check Survey by
Mixed Linear-Nonlinear Modeling, **Avinash Singh** and Shiying Wu (Statistics Canada)
A Transparent File for a One Number Census, **Cary Isaki**, Michael Ikeda, Julie Tsay (U.S.
Bureau of the Census), and Wayne Fuller (Iowa State U.)
Demographic Perspectives on Small Area Estimation of Population, **Signe Wetrogan** (U.S.
Bureau of the Census)

10:45 - 12:30
The Census Bureau's Small Area Income and Poverty Estimates (SAIPE) Program
An Overview of the Census Bureau's SAIPE Program, **Paul Siegel** (U.S. Bureau of the Census)
Methods Used for Small Area Poverty and Income Estimation for Counties, **Robin Fisher** and
Paul Siegel (U.S. Bureau of the Census)
Development of the 1993 SAIPE State Models, **Bob Fay** (U.S. Bureau of the Census)
Using Multiple Years of CPS Data in Estimating State Poverty Rates of School Age Children,
Bill Bell (U.S. Bureau of the Census) and Mark Otto (U.S. Fish and Wildlife Service)

12:30 - 1:30 Lunch, Census Bureau Cafeteria

1:30 - 2:40
Loglinear Models of Household Types in Small Area Estimation and Imputation
Small Area Estimation Using Loglinear Models for Complex Household Structures,
Alan Zaslavsky (Harvard U.)
Small Area Estimation in Microsimulation Analyses, **Allen Schirm** (Mathematica Policy
Research) and Alan Zaslavsky (Harvard U.)

2:55 - 4:05
Time Series Problems in Small Area Estimation
Seasonal Adjustment of Small Area Estimates, **Richard Tiller** (U.S. Bureau of Labor Statistics)
Empirical Bayes Estimation of Median Income of Four-Person Families by State Using Time
Series and Cross-Sectional Data, Gauri Datta (U. of Georgia and ASA/Census Research
Fellow), and Partha Lahiri and **Tapabrata Maiti** (U. of Nebraska)

4:20 - 5:30
On Measures of Uncertainty in Small Area Estimation
A Unified Measure of Uncertainty of Estimated Best Linear Unbiased Predictors in Small Area
Estimation Problems, **Gauri Datta** (U. of Georgia and ASA/Census Research Fellow)
and Partha Lahiri (U. of Nebraska)
On the Measures of Uncertainty of EBLUP in Small Area Estimation Problems, Ferry Butar (U.
of Central Florida) and **Partha Lahiri** (U. of Nebraska)

Friday, March 27

8:30 - 10:30
Overview and Perspectives on Small Area Estimation
Small Area Estimation — An Appraisal with Updates, **J. N. K. Rao** (Carleton U.)
Discussion: **Malay Ghosh** (U. of Florida)
Discussion: **Wayne Fuller** (Iowa State U.)
Discussion: **Bob Fay** (U.S. Bureau of the Census)
Discussion: **P. K. Sen** (U. of North Carolina)

10:45 - 12:30
Generalized Linear Models in Small Area Estimation
Generalized Linear Models for Small Area Estimation, **Malay Ghosh** (U. of Florida)
Small Area Estimation for the National Household Survey on Drug Abuse: Solutions Based on
Survey Weighted Logistic Mixed Models, **Ralph Folsom** (Research Triangle Institute)
Small Area Estimation Using Data from the Third National Health and Nutrition Examination
Survey (NHANES III), **Bill Davis** (Klemm Analysis Group) and Don Malec (NCHS)

12:30 - 1:30 Lunch, Census Bureau Cafeteria

1:30 - 3:15
Mapping and Spatial Analysis in Small Area Estimation
Bayesian Analysis of Mortality Rates for U.S. Health Service Areas, Balgobin Nandram
(Worcester Polytechnic Institute), **Joe Sedransk** (Case Western Reserve U.), and Linda
Pickle (National Center for Health Statistics)
Small Area Estimation and Visualization Using Nonparametric Regression, **Gerald Whittaker**
(Economic Research Service, U.S. Department of Agriculture)
Hierarchical Bayes Estimation of Hunting Success Rates with Spatial Correlations, Zhuoqiong
He (Missouri Department of Conservation) and **Dongchu Sun** (U. of Missouri)